

Claims

1. Surface-mounted component,

- having at least one external connection (11, 12) and

5 - having individual components (21, 22) stacked together, said individual components containing individual terminals (311, 312, 321, 322)

- in which said external connection (11, 12) is connected to a plurality of individual terminals (311, 312, 321, 322) by spot welds (300) and

10 - said external connection forms a contact surface (51, 52) on the assembly side (4) of said component,

- wherein an area (350) that is free of spot welds (300) is provided on said external connection (11, 12) for later wetting with solder.

2. Component according to claim 1,

15 - in which said external connection (11, 12) is designed L-shaped and,

- in which one leg (61, 62) of said L forms said contact surface (51, 52).

3. Component according to one of the claims 1 or 2, in which said external connection (11, 12) is formed out of one of said individual terminals (311, 312, 321, 322).

4. Component according to one of the claims 1 through 3, in which individual terminals (311, 312, 321, 322) are located only on the inside of said external connection (11, 12).

5. Component according to one of the claims 1 through 4, in which said external connection (11, 12) is connected to individual terminals (311, 312, 321, 322) as a separate part.

6. Component according to one of the claims 1 through 5, in which said individual terminals (311, 312, 321, 322) extend, at least in sections, along the side faces of said component.

7. Component according to one of the claims 1 through 6,
- in which said individual components (21, 22) are stacked on top of each other,
- in which said base area of said bottom individual component (21) forms said assembly surface (4),
- in which said individual terminals (321, 322) of said top individual component (22) are bent downwards.

8. Component according to one of the claims 1 through 7, in which one or a plurality of individual components (21, 22) are capacitors comprising of:
- a housing (71, 72) surrounding an anode body (81, 82),

- an anode contact (91, 92), which is connected to an individual terminal (311, 321) made of soft-solderable material, is brought out of said anode body (81, 82).

9. Component according to one of the claims 1 through 8, in which one or a plurality of individual components (21, 22) demonstrates a housing (71, 72) within which an electrical functional unit (101, 102) is arranged and in which connector elements of said electrical functional units (101, 102) are brought out from each housing (71, 72) as individual terminals (311, 312, 321, 322).

10. Component according to one of the claims 1 through 9,

- in which said individual components (21, 22) are stacked next to each other and
- in which a side face of said stack (200) forms said assembly surface (41).

11. Component according to one of the claims 1 through 10,

- in which at least two external connections (11, 12) are provided and
- in which said external connections (11, 12) connect said individual terminals (311, 312, 321, 322) to a parallel connection of individual components (21, 22).

12. Component according to one of the claims 1 through 11, in which individual components (21, 22) having different electrical functions from each other are stacked together.

13. Method for manufacturing a surface-mountable component comprising of the following steps:

a) making available at least two external connections (11, 12) for lateral delimitation of said component

5 b) stacking together individual components (21, 22) having individual terminals (311, 312, 321, 322) in the space predetermined by said external connections (11, 12)

 c) electrical and physical connecting of said individual terminals (311, 312, 321, 322) of said individual components (21, 22) to said external connections (11, 12) by welding, keeping free of spot welds (300) an area (350) of said external connection (11, 10 12) that is to be wetted with solder.